| Ind | ex of | Claims | ; |
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| Application No. | Applicant(s)  |   |
|-----------------|---------------|---|
| 09/890,253      | LEE, EUN SEOG |   |
| Examiner        | Art Unit      |   |
| Tadesse Hailu   | 2173          | _ |

| Rejected    | _ | (Through numeral)<br>Cancelled |
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| <br>Allowed | ÷ | Restricted                     |

| N | Non-Elected  | Α | Appeal   |
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| ı | Interference | 0 | Objected |

| Cla              | im       | Date     |          |         |          | 1 [             | Claim Date |          |                  |              |          |                 |          |              | $\neg$                                           | Cli           | aim      | Date          |          |              |          |          |                     |                |          |          |          |          |          |          |
|------------------|----------|----------|----------|---------|----------|-----------------|------------|----------|------------------|--------------|----------|-----------------|----------|--------------|--------------------------------------------------|---------------|----------|---------------|----------|--------------|----------|----------|---------------------|----------------|----------|----------|----------|----------|----------|----------|
|                  |          | П        |          |         |          |                 |            |          |                  |              | 1        |                 |          | П            | П                                                | Ť             | Ť        | П             | П        | П            | $\dashv$ |          |                     |                |          |          |          |          |          |          |
| m                | Original | 4        |          |         |          |                 |            |          |                  | <del>_</del> | Original |                 |          | 1            |                                                  |               |          |               |          | <del>-</del> | Original |          | ľ                   |                |          |          | 1        |          |          |          |
| Final            | įġ       | 8/2/04   |          | İ       | 1        | - 1             |            |          |                  | Final        | į        |                 |          |              |                                                  |               |          |               |          | Final        | ij       |          |                     |                |          |          | - 1      |          |          |          |
| "                | ō        | ω        |          |         |          |                 |            |          |                  | <u>"</u>     | ō        |                 |          |              |                                                  | - 1           |          |               |          | "            | ŏ        |          |                     |                |          |          |          |          |          |          |
| 1                |          |          | _        | +       | <u> </u> | $\vdash$        |            | -        | <b>↓</b> ↓       |              |          |                 |          |              | $\vdash$                                         |               |          |               |          |              |          |          |                     |                |          |          |          |          |          |          |
|                  | _1_      | إيا      |          |         | Ш        | Ш,              |            |          |                  |              | 51       |                 |          |              | $\sqcup$                                         | _             | _        |               |          |              | 101      |          |                     | _              |          |          |          | _        |          |          |
|                  | 2        | V        |          |         |          |                 |            |          | l L              |              | 52       |                 |          |              |                                                  |               |          |               | _        |              | 102      |          |                     |                |          |          |          | $\Box$   |          | _        |
|                  | 3        |          |          |         |          |                 |            |          |                  |              | 53       |                 |          |              |                                                  | 1             |          |               |          |              | 103      |          |                     |                | Į        |          |          |          |          |          |
|                  | 4        | V        |          |         | _        |                 |            |          |                  |              | 54       |                 |          |              |                                                  |               |          |               |          |              | 104      |          |                     |                |          |          |          |          |          |          |
|                  | 5        | 1        |          |         |          |                 |            |          |                  |              | 55       |                 |          |              |                                                  |               |          |               |          |              | 105      |          | 1                   | $\neg$         |          |          |          | T        |          |          |
|                  | 6        | 1        |          |         | $\top$   |                 |            |          | 1                |              | 56       |                 | $\top$   |              |                                                  |               | $\neg$   |               |          |              | 106      |          |                     | $\neg$         |          | Ī        |          |          |          |          |
|                  | 7        | 7        |          |         | 1        |                 | T          |          | 1                |              | 57       |                 |          |              |                                                  | 一             | ヿ        | $\neg$        |          |              | 107      |          |                     |                | ヿ        |          |          | ヿ        |          | $\neg$   |
|                  | 8        | 7        | $\top$   |         |          |                 |            |          | 1  -             |              | 58       |                 | _        | +            |                                                  | _             | 7        | $\neg$        | ┪        |              | 108      |          |                     | _              |          | 寸        | 1        | 寸        |          | ヿ        |
|                  | 9        | 7        | $\top$   | +-      | 1        |                 | -+         |          | 1                |              | 59       | _               |          |              | 1                                                |               | -        | _             | -        |              | 109      |          |                     | -              | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |
|                  | 10       | 1        | +        |         | $\vdash$ |                 | +          | _        | 1                |              | 60       | -               | +        | +            | +                                                | $\dashv$      | +        | +             | $\dashv$ |              | 110      |          | $\dashv$            | $\dashv$       | $\dashv$ | -        |          | $\dashv$ | $\dashv$ | $\dashv$ |
|                  | 11       | 1        | +        | +       | +        |                 | $\dashv$   |          | ┧┝               | -            | 61       |                 |          |              |                                                  |               | -        | -             | $\dashv$ |              | 111      |          | - +                 | -              | $\dashv$ | $\dashv$ | +        | $\dashv$ |          |          |
| $\vdash$         | 12       | V        | +        | +       | +        | $\vdash$        | $\dashv$   | +        | 1  -             |              | 62       | -+              | +        | +            | +                                                | $\dashv$      | $\dashv$ | +             | $\dashv$ |              | 112      | Н        | $\vdash$            | $\dashv$       | $\dashv$ | $\dashv$ |          | {        |          | ᅴ        |
| $\vdash$         |          | 1        |          |         | +        | $\vdash$        | +          | -        | -                |              |          | $\vdash +$      | +        | +            | ++                                               | $\dashv$      | $\dashv$ | +             | $\dashv$ |              |          | $\vdash$ | $\vdash$            | $\dashv$       | $\dashv$ | $\dashv$ |          |          |          | ᅴ        |
| -                | 13       |          |          |         | -        | $\vdash \vdash$ | $\dashv$   | +        | <del> </del>     | -            | 63       | $\vdash \vdash$ | +        | +            |                                                  | $\rightarrow$ | $\dashv$ | +             | $\dashv$ | -            | 113      | Н        | $\vdash$            |                | -        |          |          |          |          |          |
| $\vdash$         | 14       | 17       | +        | +       | $\vdash$ | $\sqcup$        | _          | $\perp$  | 1 L              |              | 64       |                 |          | +-           | +                                                |               | _        |               | $\dashv$ | -            | 114      | ļ        | $\vdash \downarrow$ |                |          |          |          | _        | _        | _        |
|                  | 15       | 11       |          |         | 4_       |                 | _          |          | ł L              |              | 65       |                 | $\bot$   | _            | 1                                                | _             | _        |               | _        |              | 115      |          |                     | _              | _        | _        | _        | _        | _        | _        |
| $\sqcup$         | 16       | N 14 11  | $\perp$  | $\bot$  | $\sqcup$ | Ш               | _          |          | L                |              | 66       |                 |          | 4            | <u>                                     </u>     | _             | _        | $\perp$       | 4        | <u> </u>     | 116      | Ш        | Ц                   |                |          | _        |          |          |          |          |
|                  | 17       | =        |          |         |          | Ш               |            |          | l L              |              | 67       |                 |          |              |                                                  |               | $\perp$  |               |          |              | 117      |          |                     | _              |          |          |          | $\Box$   |          |          |
|                  | 18       | =        |          |         |          |                 |            |          | L                |              | 68       |                 |          |              |                                                  |               |          |               | ╝        |              | 118      |          |                     |                |          |          |          |          |          |          |
|                  | 19       | 11       |          |         |          |                 |            |          |                  |              | 69       |                 |          |              |                                                  |               |          |               |          |              | 119      |          |                     |                |          |          |          |          |          |          |
|                  | 20       | =        |          |         |          |                 |            |          |                  |              | 70       |                 |          |              |                                                  |               |          |               |          |              | 120      |          |                     |                |          |          |          |          |          |          |
|                  | 21       | =        |          | Т       | I        |                 |            |          | 1 Г              |              | 71       |                 |          |              |                                                  |               |          |               |          |              | 121      |          |                     |                |          |          | T        | T        |          |          |
|                  | 22       | =        |          |         |          |                 |            |          | 1                |              | 72       |                 | Ī        |              |                                                  |               |          |               |          |              | 122      |          |                     |                |          | $\Box$   | $\neg$   | 一        | 一        | $\neg$   |
|                  | 23       | _        |          | 1       |          |                 |            |          | 1                |              | 73       |                 | T        |              |                                                  |               | 寸        |               | 7        |              | 123      |          |                     |                |          |          |          |          | $\neg$   | ヿ        |
|                  | 24       | $\Box$   |          | $\top$  |          |                 |            | $\neg$   | 1                |              | 74       |                 |          | $\top$       |                                                  |               | $\neg$   |               | ┨        |              | 124      |          |                     |                | $\neg$   |          |          |          |          |          |
|                  | 25       |          |          |         |          |                 |            |          | 1  -             |              | 75       |                 | 1        | _            | 11                                               |               | _        |               | $\dashv$ |              | 125      |          |                     | 寸              | 一        | $\neg$   | 寸        | 7        |          | $\neg$   |
| -                | 26       | $\vdash$ |          | +       | +        | $\vdash$        | 1          | $\dashv$ | 1                |              | 76       |                 | $\dashv$ | ╅            | $\Box$                                           | $\dashv$      | _        |               | -        |              | 126      |          |                     | _              | $\dashv$ | $\dashv$ | _        | $\dashv$ | _        | $\dashv$ |
|                  | 27       | -        | $\dashv$ | +       | 1        | $\vdash$        | $\dashv$   | +        | 1                | -            | 77       | -               |          | +            | +                                                | _             | 7        | _             | $\dashv$ |              | 127      | H        | $\vdash$            | _              | -        | -        |          |          |          |          |
| h                | 28       | -        |          | +       | ╁        | H               | $\dashv$   |          | 1                |              | 78       |                 |          | +            | +                                                | $\dashv$      | +        | -             | $\dashv$ | -            | 128      | H        | $\dashv$            | $\dashv$       |          |          | -        |          |          | $\dashv$ |
| <del>     </del> | 29       | $\vdash$ | +        | +       | +        | $\vdash$        | $\dashv$   | -        | ┤├               | -            | 79       |                 |          | +            | +                                                | -             | -        | +             | $\dashv$ | -            | 129      |          |                     | $\dashv$       | $\dashv$ | -        | -        |          |          | $\dashv$ |
| 1                | 30       | -        | -        | +       | H        | $\vdash$        | +          |          | ł                |              | 80       |                 |          | +            | +                                                | $\dashv$      | +        | -             | ⊣        | -            | 130      | H        | $\rightarrow$       | -              | $\dashv$ | -        |          |          |          |          |
| <b>  </b>        |          |          |          |         | 1        | $\vdash$        | $\perp$    | _        | ŀ                |              |          |                 | -        | -            | <del>  </del>                                    |               | -        |               |          |              |          |          |                     | -              |          |          |          | -        |          | $\dashv$ |
| $\vdash$         | 31       |          |          | -       | 1        | $\vdash \vdash$ | _          | _        | ∤   <sub>-</sub> | _            | 81       |                 | _        | -            | -                                                |               | -        | $\perp$       | _        |              | 131      |          | _                   | _1             | _        | _        | _        |          |          |          |
| $\vdash$         | 32       | $\sqcup$ | 4-       |         | 1        | $\sqcup$        | _          | $\perp$  | 1 L              |              | 82       |                 | $\perp$  | $\perp$      | 1                                                |               | _        |               | _        |              | 132      | Щ        | $\sqcup$            | _              | _        | _        | _        |          |          |          |
| $\vdash$         | 33       | $\sqcup$ | _        |         |          |                 | _          |          | L                |              | 83       |                 |          |              | $\sqcup$                                         | _             | _        |               | _        |              | 133      | Ш        |                     |                | _        | _        |          |          |          |          |
|                  | 34       | $\sqcup$ | $\bot$   | _       | $\perp$  |                 |            | _ _      | l L              |              | 84       | oxdot           | _ _      | _            | $\sqcup$                                         | _             | _        | $\perp$       | 4        |              | 134      |          | Щ                   | _              |          | _        | _        |          |          |          |
|                  | 35       | <u> </u> |          | $\perp$ | Ш        | Ш               | _          |          | 1 L              |              | 85       |                 | _        |              | 1                                                |               | _        | _             |          |              | 135      |          |                     |                |          |          |          |          |          | ]        |
|                  | 36       | Ш        | $\perp$  |         | 1_       |                 |            | $\perp$  | l L              |              | 86       |                 |          |              |                                                  |               | _        |               | _        |              | 136      |          |                     |                |          |          |          |          |          |          |
|                  | 37       |          |          | $\perp$ |          |                 |            |          | Ţ                | I            | 87       |                 |          |              |                                                  |               |          |               |          |              | 137      |          |                     |                | [        |          |          |          | [        | ]        |
|                  | 38       |          |          | 1       |          |                 | T          |          | ΙΓ               |              | 88       |                 | Т        |              |                                                  |               |          | T             |          |              | 138      |          |                     | $\Box$         |          |          |          |          |          |          |
|                  | 39       |          |          |         |          |                 |            |          |                  |              | 89       |                 | $\top$   |              |                                                  |               |          |               |          |              | 139      |          |                     |                |          |          |          |          |          |          |
|                  | 40       |          |          | 1       | П        |                 | 寸          |          | 1                |              | 90       |                 | Т        | 1            |                                                  |               | 寸        | _             |          |              | 140      |          |                     | T              | 一        |          |          | $\neg$   |          | $\neg$   |
|                  | 41       | $\Box$   | T        | 1       |          |                 | 7          |          | 1                |              | 91       |                 | $\dashv$ | 1            |                                                  | $\neg$        | $\dashv$ |               |          |              | 141      |          | $\Box$              | 寸              | $\neg$   | $\neg$   | $\neg$   |          | $\neg$   | $\dashv$ |
|                  | 42       | $\Box$   |          |         | П        | $\Box$          | T          |          | 1                |              | 92       |                 | $\top$   | 1            |                                                  |               | $\neg$   |               |          |              | 142      |          |                     | 寸              |          |          |          | 一        | $\neg$   | $\neg$   |
|                  | 43       | $\Box$   | 1        | 1       | $\Box$   |                 | 寸          |          | 1                |              | 93       |                 | $\dashv$ | $\top$       |                                                  |               | 1        | 十             | 7        |              | 143      |          |                     | 寸              | 一        |          | _        | $\neg$   | $\neg$   | $\dashv$ |
|                  | 44       | $\Box$   | $\top$   | +       | П        | $\Box$          | $\dashv$   | $\top$   | 1                |              | 94       |                 | 1        |              |                                                  | _             | _        |               |          |              | 144      | П        | $\Box$              | $\dashv$       | $\neg$   |          | _        | $\dashv$ | $\neg$   | $\dashv$ |
|                  | 45       | 一十       | +        | _       | 1-       | $\vdash$        | 1          | 1        | 1                |              | 95       |                 | 1        | $\top$       | 1                                                |               | $\dashv$ | _             | ┨        |              | 145      | П        | $\sqcap$            | $\dashv$       | $\dashv$ | 7        |          | 7        |          | ᅱ        |
| $\vdash$         | 46       | $\vdash$ | +        | $\top$  | $\vdash$ | $\vdash$        | _          | $\dashv$ | 1                |              | 96       | $\vdash$        | +        | +            | $\Box$                                           | $\dashv$      | 一        | $\top$        | 7        |              | 146      |          | $\dashv$            | $\neg \dagger$ | $\dashv$ | $\dashv$ |          |          | $\dashv$ | $\dashv$ |
| $\vdash$         | 47       | $\vdash$ | $\top$   | +       |          | $\vdash$        | $\dashv$   | $\dashv$ | 1                |              | 97       |                 | +        | -            | $\vdash$                                         | $\dashv$      | $\dashv$ | $\dashv$      | 7        |              | 147      |          | -                   | _              | $\neg$   | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$ |
|                  | 48       | $\vdash$ | +        | +       | $\vdash$ | $\vdash$        | $\dashv$   | +        | 1  -             | -            | 98       | $\vdash$        | +        | <del> </del> | <del>                                     </del> | $\dashv$      | $\dashv$ | $\neg \vdash$ |          |              | 148      | H        | $\vdash$            | +              |          | $\dashv$ | -        | +        | -1       | ᅱ        |
| $\vdash$         | 49       | $\vdash$ | +        | +-      | +-       | $\vdash$        | -+         |          | 1                | -            | 99       |                 | +        | +            | $\vdash$                                         | $\dashv$      | $\dashv$ | $\dashv$      | -        |              | 149      | $\vdash$ | $\dashv$            | $\dashv$       |          |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |
| $\vdash$         | 50       | $\vdash$ | +        | +       | +        | $\vdash$        | +          |          | 1  -             |              | 100      | -+              | +        | +            | <del>                                     </del> |               | $\dashv$ | -+            | -        | -            | 150      | $\vdash$ | $\dashv$            | $\dashv$       |          | $\dashv$ | $\dashv$ | $\dashv$ | -        | $\dashv$ |
| -1               | JU       | oxdot    |          | _L      | i        |                 | 1          | L_       | ı L              | 1            | 100      |                 |          | ட்ட          | ш                                                |               | 1        |               |          |              | 130      | ᆫᆚ       |                     |                |          |          |          |          |          |          |